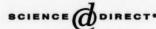


Available online at www.sciencedirect.com



Aquaculture

Aquaculture 231 (2004) 601-604

www.elsevier.com/locate/aqua-online

## Contents of Aquaculture, Volume 231

## VOL. 231 NOS. 1-4 5 March 2004 Diseases Disease resistance of Pacific white shrimp, Litopenaeus vannamei, following the dietary administration of a yeast culture food supplement Efficacy of oral reimmunisation after immersion vaccination against Vibrio vulnificus in farmed European eels M. Dolores Esteve-Gassent (Puçol, Burjassot, Spain), B. Fouz (Burjassot, Spain), Passive immunization of rainbow trout (Oncorhynchus mykiss) with chicken egg yolk immunoglobulins (IgY) N. Arasteh (Vancouver, British Columbia, Canada), A.-H. Aminirissehei (Burnaby, British Columbia, Canada), A.N. Yousif (Vancouver, British Columbia, Canada), L.J. Albright (Burnaby, British 23 Physical mapping of the Nile tilapia (Oreochromis niloticus) genome by fluorescent in situ hybridization of repetitive DNAs to metap use chromosomes—a review C. Martins, C. Oliveira, A.P. Wasko (Botucatu, Brazil) and J.M. Wright (Halifax, Nova Scotia, Canada)..... 37 Comparisons between the growth of Acanthopagrus butcheri cultured from broodstock from two estuarine populations that are reproductively isolated and differ markedly in growth rate G.J. Partridge (Fremantle, Australia), G.A. Sarre, N.G. Hall (Murdoch, Australia), G.I. Jenkins (Fremantle, Australia), J. Chaplin and I.C. Potter (Murdoch, Australia) 51 Effects of post-ovulatory oocyte ageing and temperature on egg quality and on the occurrence of triploid fry in rainbow trout, Oncorhynchus mykiss 59 S. Aegerter and B. Jalabert (Rennes, France) Comparative growth of selected and non-selected Kuruma shrimp Penaeus (Marsupenaeus) japonicus in commercial farm ponds; implications for broodstock production N.P. Preston, P.J. Crocos, S.J. Keys, G.J. Coman (Queensland, Australia) and R. Koenig (Woongoolba, Australia). 73 Phylogenetic relationships of ornamental (koi) carp, Oujiang color carp and Long-fin carp revealed by mitochondrial DNA COII gene sequences and RAPD analysis 83 An RFLP database for authentication of commercial cyst samples of the brine shrimp Artemia spp. (International Study on Artemia LXX) P. Bossier, W. Xiaomei, F. Catania, S. Dooms (Oostende, Ghent, Belgium), G. Van Stappen (Ghent, Belgium), E. Naessens (Baasrode, Belgium) and P. Sorgeloos (Ghent, Belgium).... Modeling fillet traits based on body measurements in three Nile tilapia strains (Oreochromis niloticus L.) 113

Husbandry and Management	
Effects of stocking different fractions of size graded juvenile prawns on production and population structure during a temperature-limited growout period	
J.H. Tidwell, S.D. Coyle and S. Dasgupta (Frankfort, KY, USA)	123
A. Sánchez-Lamadrid (Cádiz, Spain)	135
W.W. Stephens and J.L. Farris (Arkansas, AR, USA)	149
Y.H. Kang, M.O. Lee, S.D. Choi (Yeosu, South Korea) and YS. Sin (Mokpo, South Korea)  Maternal variability in the blacklip abalone, <i>Haliotis rubra</i> leach (Mollusca: Gastropoda): effect of egg size on fertilisation success	163
S.M.H. Huchette (Melbourne, Australia; Brest, France), J.P. Soulard (Paris, France), C.S. Koh and R.W. Day (Melbourne, Australia)	181
Substitution of fish meal by co-extruded soybean poultry by-product meal in practical diets for the Pacific white shrimp, <i>Litopenaeus vannamei</i>	
T.M. Samocha (Corpus Christi, TX, USA), D.A. Davis (Auburn, AL, USA), I.P. Saoud (Beirut,	
Lebanon) and K. DeBault (Corpus Christi, TX, USA)	197
H. Acosta-Salmón, E. Martínez-Fernández and P.C. Southgate (Townsville, Australia)	205
A.M. Doglioli, M.G. Magaldi, L. Vezzulli and S. Tucci (Genova, Italy)	215
Effect of stocking density on growth, survival and cheliped injuries of stage 2 juvenile signal crayfish	
Pasifastacus leniusculus Dana R. Savolainen (Valkola, Finland), K. Ruohonen (Turku, Finland) and E. Railo (Helsinki, Finland).	237
Sorting Eurasian perch fingerlings ( <i>Perca fluviatilis</i> L.) with and without functional swim bladder using tricaine methane sulfonate	
F. Jacquemond (Poisy, France)	249
S. Fivelstad (Bergen, Norway), A. Bergheim (Stavanger, Norway), P.M. Hølland and A.B. Fjermedal (Dirdal, Norway).	263
Feeding-regime experiments to enhance gamete production in the carnivorous Sea Urchin Arbacia spatuligera	203
J. Silva, A. Larrain, E. Bay-Schmith and R. Roa (Concepción, Chile)	279
C. Lodeiros and N. García (Sucre, Venezuela)	293
A. Campos-Mendoza, B.J. McAndrew (Stirling, UK), K. Coward (Oxford, UK) and N. Bromage (Stirling, UK)	299
Evaluation of the neutral red assay as a stress response indicator in cultivated mussels ( <i>Mytilus</i> spp.) in relation to post-harvest processing activities and storage conditions  J.M. Harding, C. Couturier, G.J. Parsons (St. John's, Newfoundland, Canada) and N.W. Ross (Halifax,	
Nova Scotia, Canada)	315
Behavioural role of zinc on primary productivity, plankton and growth of a freshwater teleost, <i>Labeo rohita</i> (Hamilton)	
S. Adhikari and S. Ayyappan (Bhubaneswar, India)	327
A protocol for the on-site use of frozen milt from rainbow trout ( <i>Oncorhynchus mykiss</i> Walbaum) applied to the production of progeny groups: comparing males from different populations	
R. Salte (Aas, Norway), A. Galli, U. Falaschi (Rivolta d'Adda (CR), Italy), K.T. Fjalestad (Aas, Norway) and R. Aleandri (Rivolta d'Adda (CR), Italy)	337

Behavioural responses under different feeding methods and light regimes of the African catfish (Clarias	
gariepinus) juveniles	
P. Almazán-Rueda (Wageningen, Netherlands; Sinaloa, Mexico), J.W. Schrama and J.A.J. Verreth	34
(Wageningen, Netherlands)	34
modern mariculture	
A. Neori (Eilat, Israel), T. Chopin (Saint John, Canada), M. Troell (Stockholm, Sweden),	
A. H. Buschmann (Puerto Montt, Chile), G.P. Kraemer (Purchase, NY, USA), C. Halling (Stockholm,	
Sweden), M. Shpigel (Eilat, Israel) and C. Yarish (Stamford, CT, USA)	36
Effects of photoperiod on the performance of farmed Nile tilapia <i>Oreochromis niloticus</i> : I. Growth, feed	30
utilization efficiency and survival of fry and fingerlings  AF. El-Sayed and M. Kawanna (Al Ain, United Arab Emirates)	39:
Ar. El-Sayed and M. Kawanna (Al Ain, United Alao Emirates)	39.
Nutrition	
Essential fatty acids for larval mud crab Scylla serrata: implications of lack of the ability to bioconvert	
C18 unsaturated fatty acids to highly unsaturated fatty acids	
M.A. Suprayudi, T. Takeuchi (Tokyo, Japan) and K. Hamasaki (Okinawa, Japan)	403
Effect of dietary non-protein energy levels on condition and oxidative status of Senegalese sole (Solea	
senegalensis) juveniles	
R. Rueda-Jasso (Ghent, Belgium), L.E.C. Conceição (Faro, Portugal), J. Dias (Oporto, Portugal),	
W. De Coen (Antwerp, Belgium), E. Gomes (Oporto, Portugal), J.F. Rees (Louvain-la-Neuve,	
Belgium), F. Soares, M.T. Dinis (Faro, Portugal) and P. Sorgeloos (Ghent, Belgium)	417
Growth, feed utilization and body composition of black catfish, Rhamdia quelen, fry fed diets containing	
different protein and energy levels	
M. Salhi, M. Bessonart, G. Chediak, M. Bellagamba and D. Carnevia (Montevideo, Uruguay)	435
Dietary brewers yeast and the prebiotic Grobiotic ™ AE influence growth performance, immune responses	
and resistance of hybrid striped bass (Morone chrysops×M. saxatilis) to Streptococcus iniae infection	
P. Li and D.M. Gatlin III (College Station, TX, USA)	445
Effects of dehulled soybean meal as a fish meal replacer in diets for fingerling and growing Korean	
rockfish Sebastes schlegeli	
S.R. Lim, S.M. Choi, X.J. Wang, K.W. Kim (Pusan, South Korea), I.S. Shin (Seoul, South Korea),	
T.S. Min (Daejeon, South Korea) and S.C. Bai (Pusan, South Korea)	457
A method for radiolabeling Artemia with applications in studies of food intake, digestibility, protein and	
amino acid metabolism in larval fish	
S. Morais, L.E.C. Conceição, M.T. Dinis (Faro, Portugal) and I. Rønnestad (Bergen, Norway)	469
Stability of astaxanthin from red yeast, Xanthophyllomyces dendrorhous, during feed processing: effects	
of enzymatic cell wall disruption and extrusion temperature	
T. Storebakken, M. Sørensen (Ås, Norway), B. Bjerkeng (Sunndalsøra, Norway), J. Harris,	
P. Monahan and S. Hiu (Columbia, MD, USA)	489
Optimum feeding rates for European sea bass Dicentrarchus labrax L. reared in seawater and freshwater	
O.T. Eroldoğan, M. Kumlu (Adana, Turkey) and M. Aktaş (Hatay, Turkey)	501
Limiting the use of rotifers to the first zoeal stage in mud crab (Scylla serrata Forskål) larval rearing	
I.M. Ruscoe, G.R. Williams and C.C. Shelley (Darwin, Australia)	517
Regulation of feed intake, growth, nutrient and energy utilisation in European sea bass (Dicentrarchus	
labrax) fed high fat diets	
T. Boujard, A. Gélineau (Saint Pée sur Nivelle, France), D. Covès (Palavas les flots, France),	
G. Corraze (Saint Pée sur Nivelle, France), G. Dutto, E. Gasset (Palavas les flots, France) and	
S. Kaushik (France).	529
Dhordala and D. A. and D. and D. A.	
Physiology and Endocrinology  Testing various substances that have been been described plates with accords induced lawed settlement and	
Testing various substances that have been bound to plastic plates with agar to induce larval settlement and	
metamorphosis of abalone <i>Haliotis discus discus</i> (Reeve)  A.E. Stott, T. Takeuchi (Konan, Japan) and Y. Koike (Chiba, Japan)	547
A.L. Siou, I. Takeuchi (Kohan, Japan) and I. Koike (Chida, Japan)	541

Triploid hybridization of fast-growing transgenic mud loach <i>Misgurnus mizolepis</i> male to cyprinid loach <i>Misgurnus anguillicaudatus</i> female: the first performance study on growth and reproduction of transgenic polyploid hybrid fish	
Y.K. Nam, IS. Park and D.S. Kim (Busan, South Korea)	559
Effect of dissolved oxygen on the acid-base balance and ion concentration of Taiwan abalone <i>Haliotis</i> diversicolor supertexta	
W. Cheng (Pingtung, Taiwan, ROC), C,-H. Liu, SY. Cheng and JC. Chen (Chilung, Taiwan, ROC)	573
Hormonal effects on sex differentiation and growth in sunshine bass Morone chrysops×Morone saxatilis	
K.B. Davis and G.M. Ludwig (Stuttgart, AR, USA)	587
Book reviews	
Farming freshwater prawns. A manual for the culture of the giant river prawn (Macrobrachium rosenbergii)	
J.F. Wickins (Wales, UK)	597
Responsible Marine Aquaculture	
L. Kelly (Edinburgh, UK)	599
Contents of Aquaculture, Volume 231	601